9th Class 2014

Math (Science)	Group-II	Paper-I
Time: 20 Minutes	(Objective Type)	Max. Marks: 15

Note: Four possible answers, A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question.

1-(i) **$x = 0$ is a solution of the inequality _____.**

(a) $x > 0$ (b) $3x + 5 < 0$

(c) $x + 2 < 0$ (d) $x + 2 > 0$ √

(ii) **Mid-point of the points (2, –2) and (–2, 2) is:**

(a) (2, 2) (b) (–2, –2)

(c) (0, 0) √ (d) (1, 1)

(iii) **Sum of interior angles of a triangle is:**

(a) 90° (b) 180° √

(c) 270° (d) 360°

(iv) **L.C.M of $15x^2$, 45xy and 30xyz is:**

(a) 90xyz (b) $90x^2yz$ √

(c) 15xyz (d) $15x^2yz$

(v) **Real part of $2ab(i + i^2)$ is _____.**

(a) 2ab (b) –2ab √

(c) 2abi (d) –2abi

(vi) **$(3 + \sqrt{2})(3 - \sqrt{2})$ is equal to:**

(a) 7 √ (b) –7

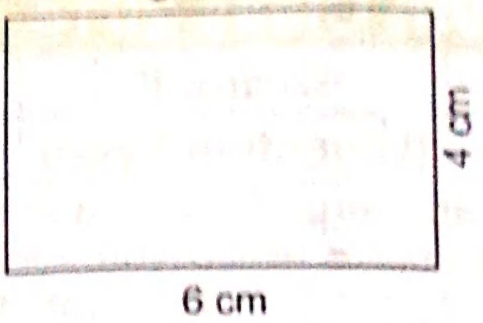
(c) –1 (d) 1

(vii) **The bisectors of the three angles of a triangle are ___.**

(a) Equal (b) Perpendicular

(c) Equal distance (d) Concurrent √

(viii) What is the area of given figure:



(a) 4 cm² (b) 6 cm²
(c) 10 cm² (d) 24 cm² √

(ix) $\begin{bmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{bmatrix}$ is called _____ matrix.

(a) Zero (b) Unit
(c) Scalar √ (d) Singular

(x) Point (–3, –3) lies in quadrant:

(a) I (b) II
(c) III √ (d) IV

(xi) ____ points determine a line.

(a) Two √ (b) Three
(c) Four (d) Five

(xii) A triangle has angles.

(a) One (b) Two
(c) Three √ (d) Four

(xiii) One angle on the base of an isosceles triangle is 30
What is the measure of its vertical angle:

(a) 30° (b) 60°
(c) 90° (d) 120° √

(xiv) If (x – 1, y + 1) – (0, 0), then (x, y) is:

(a) (1, –1) √ (b) (–1, 1)
(c) (1, 1) (d) (–1, –1)

(xv) The logarithm of unity to any base is ____.

(a) 1 (b) 10
(c) e (d) 0 √